	Application No.	Applicant/s)
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Notice of Allowability	09/990,324	HASEGAWA, JUN
	Examiner	Art Unit
	KHAI TRAN	2637
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the amendment filed 1/9/2006.		
2. The allowed claim(s) is/are <u>1-31</u> .		
 3.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2. Notice of Praftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	, , , , ,
_ , , , ,	Paper No./Mail Dat	ė
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		nt of Reasons for Allowance
	9. Other	

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REASONS FOR ALLOWANCE

1. The amendment filed 1/9/2006 has been entered. Claims 1-31 are pending in this Office action.

Allowable Subject Matter

- 2. Claims 1-32 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: none of the prior art of the record discloses or suggests a code synchronous determining method and apparatus, comprising: scanning the stored correlation values in a given direction to detect at least one minimal correlation valued to register a retrieved minimal timing corresponding to the detection minimal correlation value; extracting at least one correlation value selected from the correlation values stored at plural timings having a specified time interval from the maximal timing to the minimal timing as a high correlation value candidate as recited in claims 1-17, steps of comparing each correlation value stored in the forward and back directions from the maximal timing with a predetermined value; registering a timing when the associated correlation value is detected to be less than a minimum correlation valued as the minimal timing, extracting at least one high correction value from the correlation values obtained in the every specified time interval from maximal timing till the minimal timing, and registering a timing data corresponding to the extracted high correlation value as candidate timing data for code synchronism as recited in claim 15, a code synchronous determining device configured to determine plural code synchronous timing candidates by reading the correlation values stored in the storage device, the code synchronous timing

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determining device including a time width designating unit configured to designate a limit number of correlation values data of the correlation values stored in the storage device, and candidate extracting unit configured to extract high correlation values as code synchronous timing candidates from the limit number of correlation values designated by the time width designating unit as recited in claim 31, and the scanning element including: a holding circuit having a number of data holding stages configured to hold timing information at the plural timings in a time sequence order acquired in relation to the correlation values, the number of the data holding stages being defined to correspond to a limit number of correlation valued data of the correlation values stored in the storage circuit, registering circuit configured to retrieve a timing corresponding to a correlation value having at least one maximal value from the information at the plural timings held in the holding circuit, to register the timings as minimal timing, and candidate extracting unit configured to extract high correlation values as code synchronous timing candidate from the limit number of correlation values held in the holding circuit as recited claim 32.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571) 272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAY PATEL can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KHAI TRAN
Primary Examiner

Womanatur

Primary Examiner
Art Unit 2637

KT January 17, 2006